

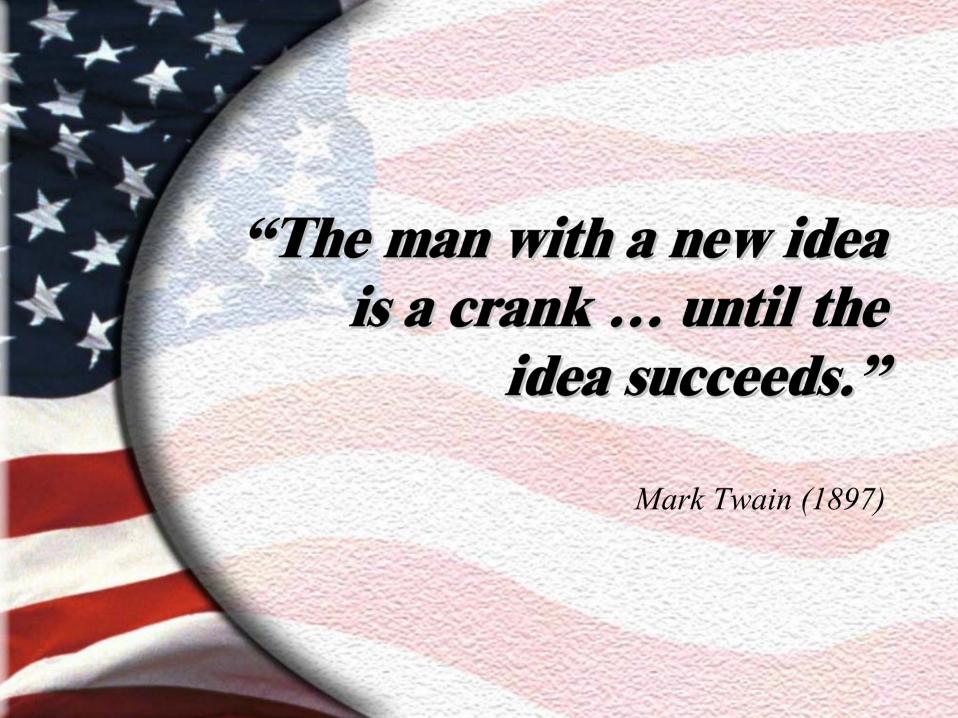
Marc G. Stanley, Acting Director Advanced Technology Program

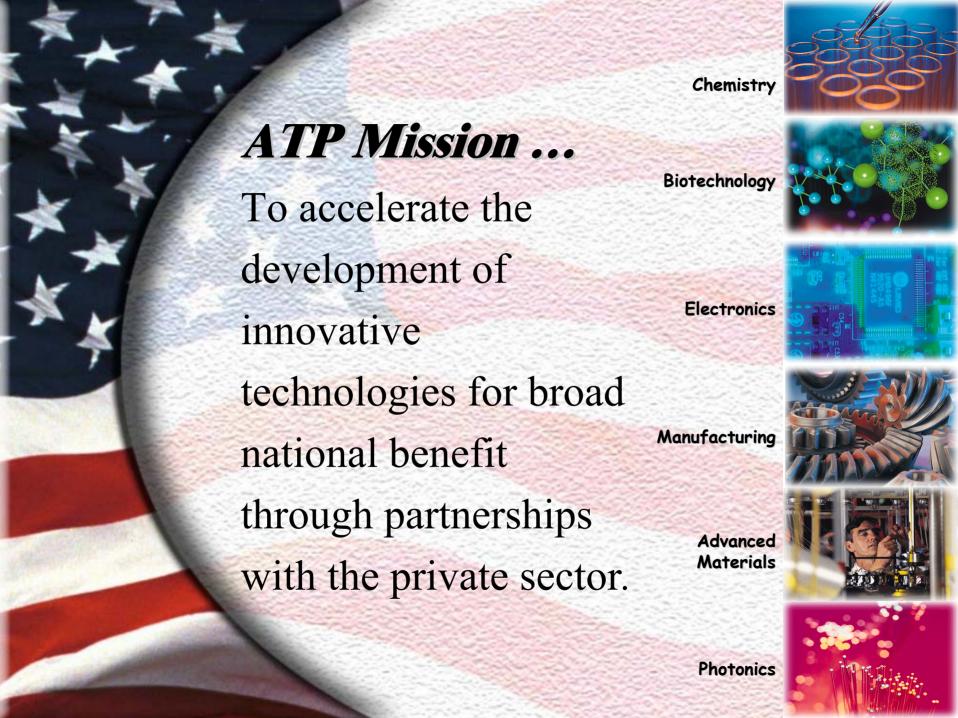
National Institute of Standards and Technology
Technology Administration
U.S. Department of Commerce

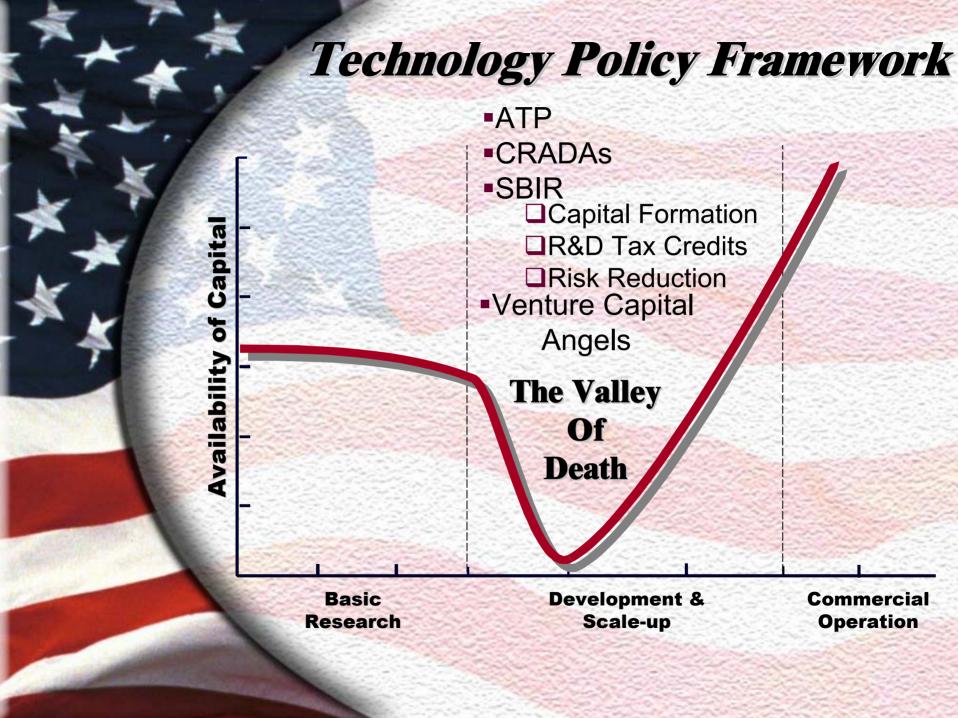
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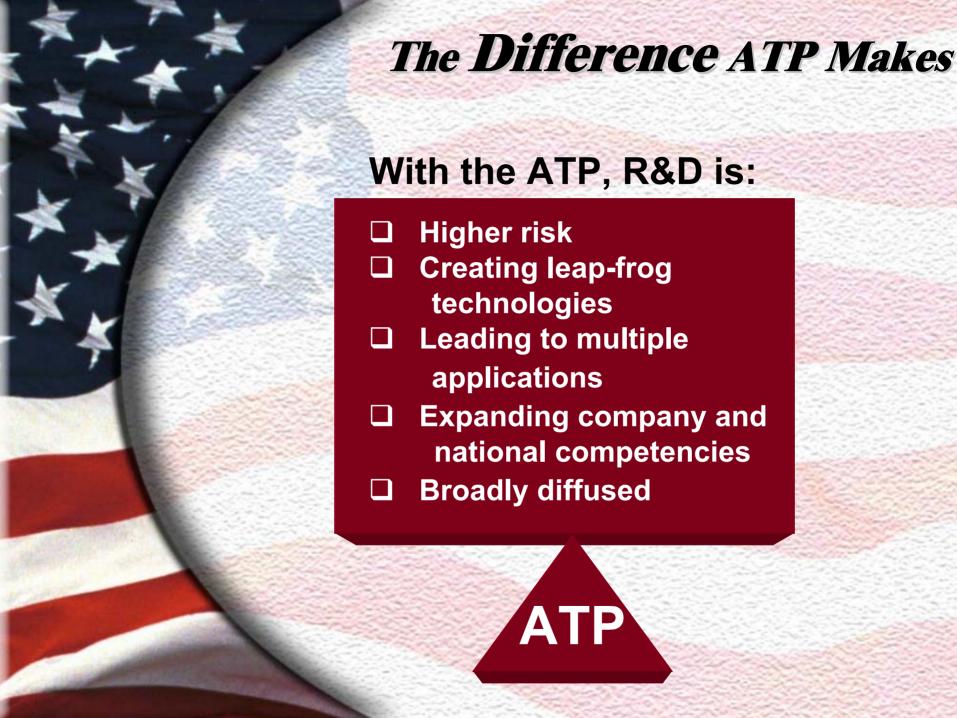


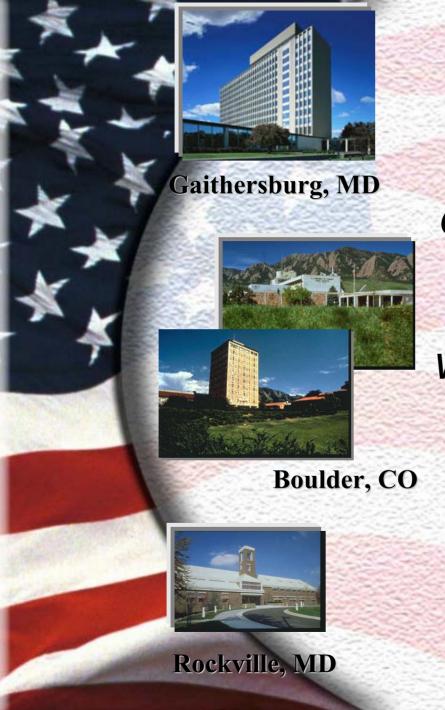


Exciting New Technologies ...



Bridging the Gap Between the Laboratory and the Marketplace





NIST Mission

Strengthen the U.S. economy and improve the quality of life by working with industry to develop and apply technology, measurements, and standards.

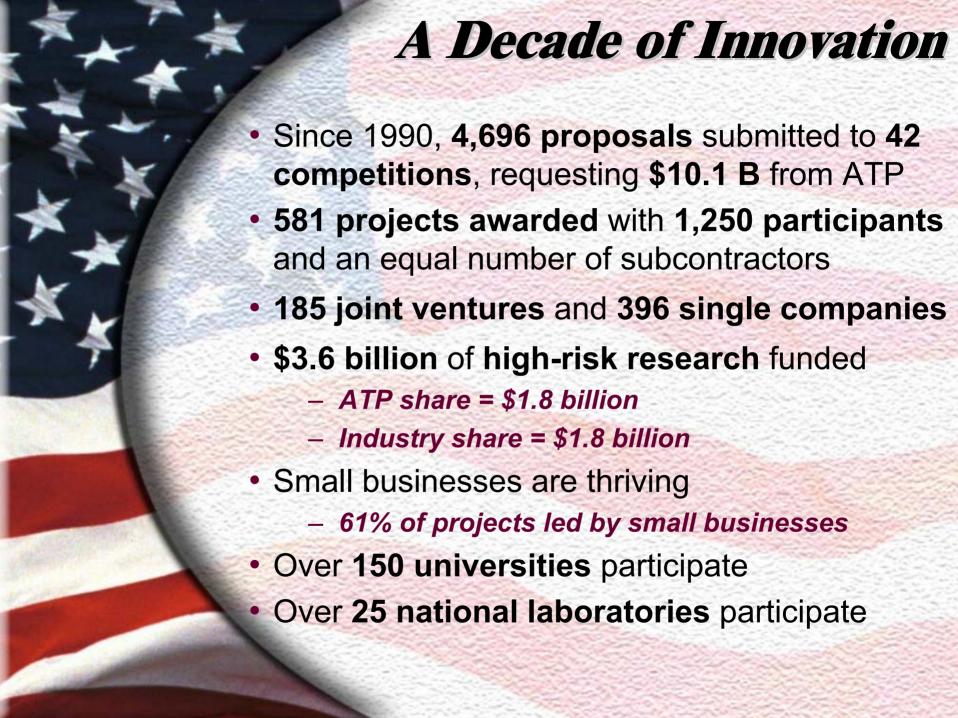
ATP is part of NIST

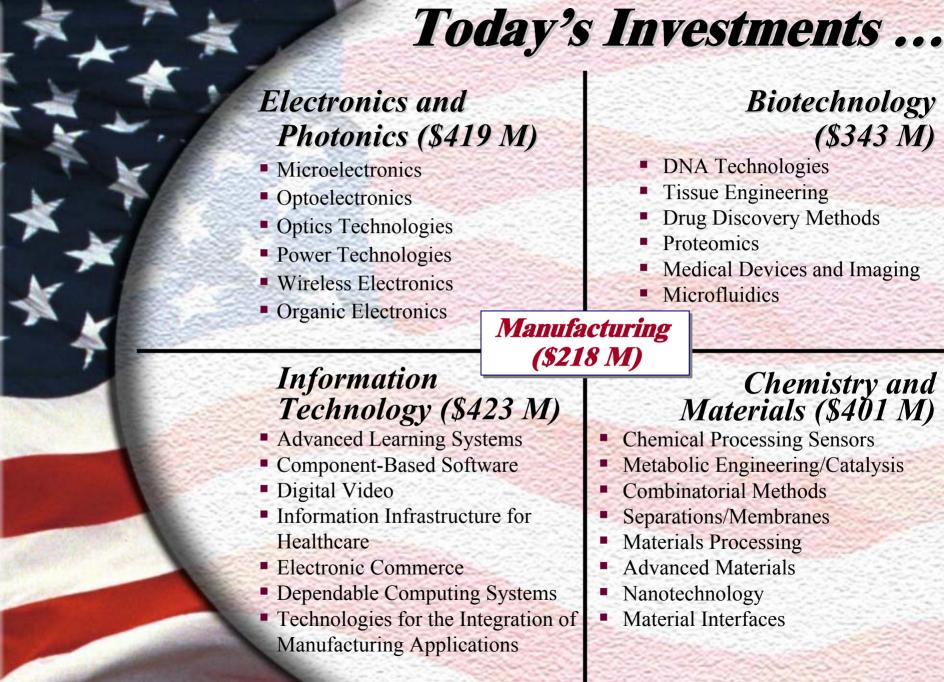


- ☐ 3,300 employees
- □ \$800 million annual budget
- □ 1,200 industrial partners
- ☐ 2,000 field agents
- ☐ 1,550 guest researchers
- □ \$1.5 billion co-funding of industry R&D
- □ National measurement standards

Helping America Measure Up







Biotechnology (\$343 M)

- DNA Technologies
- Tissue Engineering
- Drug Discovery Methods
- **Proteomics**
- Medical Devices and Imaging
- Microfluidics

Manufacturing (\$218 M)

Chemistry and Materials (\$401 M)

- **Chemical Processing Sensors**
- Metabolic Engineering/Catalysis
- Combinatorial Methods
- Separations/Membranes
- **Materials Processing**
- Advanced Materials
- Nanotechnology
- **Material Interfaces**



ATP Awards to Date by Technology Area

Forty Two Competitions (1990-2001)

As a Percent of \$1,804 M Awarded

Total Investment

Advanced Materials/

Chemistry \$397 M

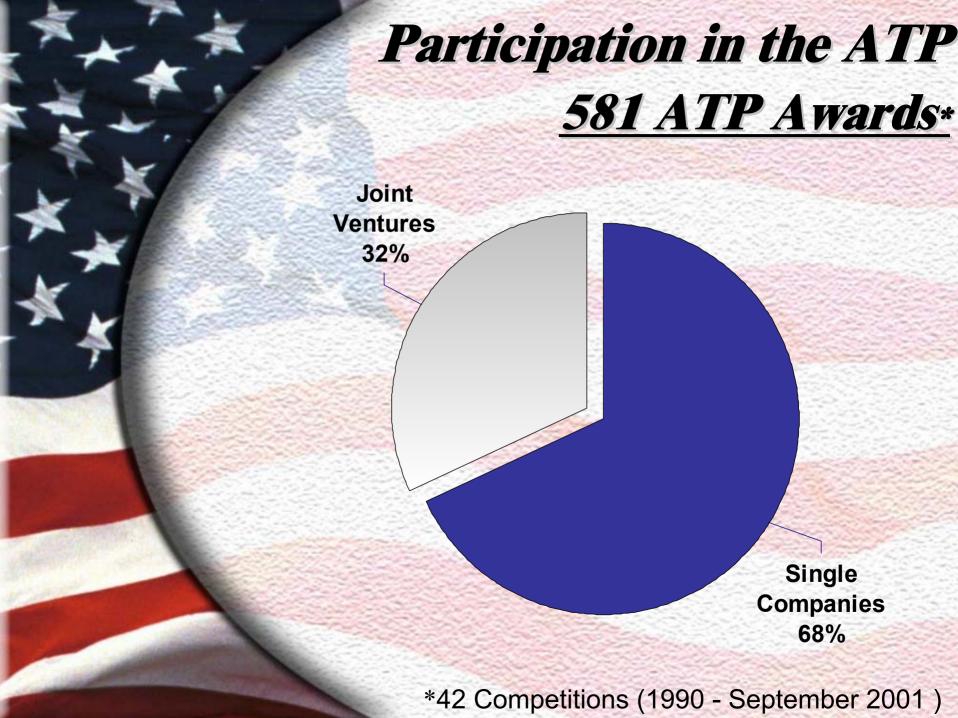
Biotechnology \$343 M

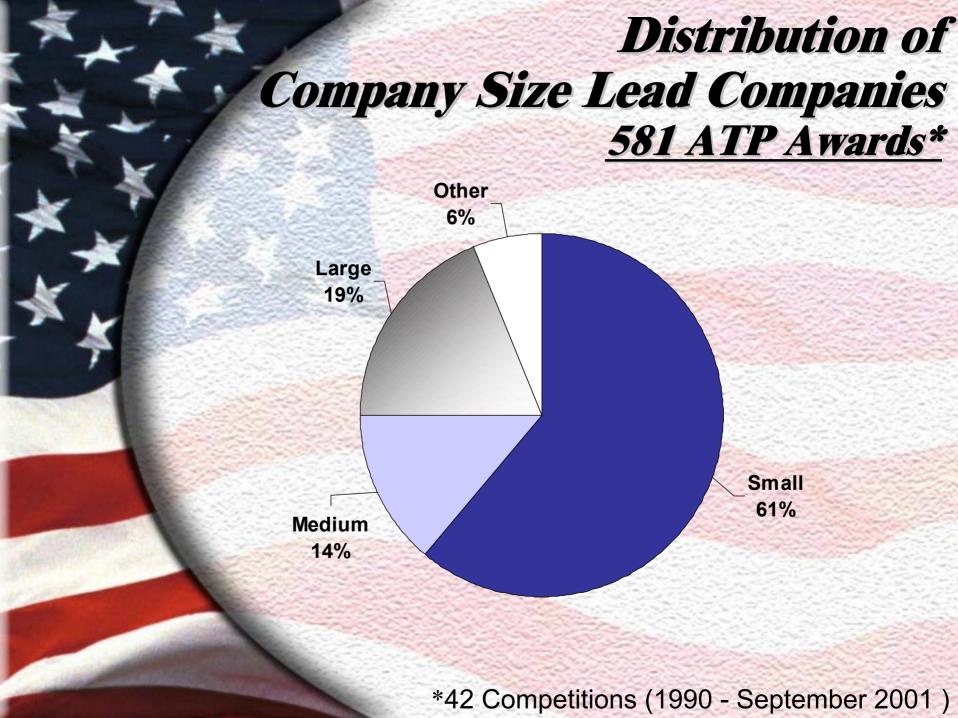
Electronics/

Photonics \$415 M

Info Tech \$433 M

Manufacturing \$216 M





ATP Applications, Awards, & Participants by State* 7-328 182 -48 NJ 1.018 7 -42-14 DE 19-214-33 MD LL 一大学の U.S. Virgin Number of Applications (4,696 total) *42 Competitions 00 Number of Awards (581 total) (1990 - September 2001) 00 Number of Participating Organizations (1,250 total) * Geographic location is not a consideration in project selection. The ATP has an active outreach program that seeks to increase awareness across the entire nation of the program's opportunities for small, medium, and large businesses and other organizations. To date, ATP has received applications from organizations based in every state, except Alaska, and has provided funding to participating organizations located in 40 states, and the District of Columbia.

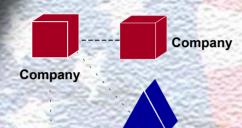
Two Ways to Apply

As a Single Company:

Alone

With Subcontractors





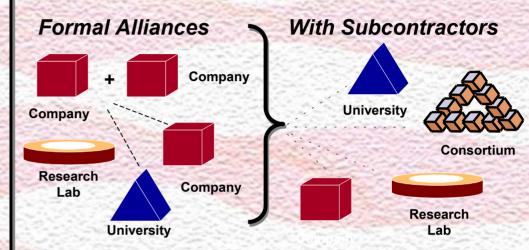
Research Lab

For-profit company

University

- 3-year time limit
- \$2M award cap
- Company pays indirect costs
- Large companies cost share at least 60% of total project cost

As a Joint Venture:



- At least 2 for-profit companies
- 5-year time limit
- No limit on award amount (other than availability of funds)
- Industry share >50% total cost

ATP encourages teaming arrangements
 Most projects involve alliances

Two Major Criteria Scientific and Technological Merit (50%)**Technical Rationale** √ high technical risk & feasibility √ technological innovation R&D Plan **Potential for Broad-Based Economic Benefits (50%) National Economic Benefits Need for ATP Funding** Pathway to Economic Benefits

